

applied with the cleaning agent and rubbed by fingers, and washed with city water or isotonic NaCl aq. soln.

USE/ADVANTAGE - The cleaning agent is useful for cleaning stained contact lens. Contact lens stained with eye-wax, etc., can be satisfactorily cleaned without forming flaws of the lens by the use of the cleaning agent.

0/0

Title Terms: CLEAN; AGENT; CONTACT ; LENS ; CONTAIN; SPHERE; FINE; PARTICLE; HYDROPHILIC; HIGH; POLYMER

Derwent Class: A96; D22; P81

International Patent Class (Additional): C11D-017/00; G02C-013/00

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A12-S09; A12-V02A; A12-V03C1; A12-W12B; D09-C01A; D11-D01C

Plasdoc Codes (KS): 0013 0231 1279 1588 1982 1989 1999 2002 2007 2008 2014 2318 2509 2541 3250 2646 2651 2701 2765 2769 3310

Polymer Fragment Codes (PF):

\*001\* 014 028 04- 147 198 231 239 240 244 245 252 253 259 31- 316 336 393 398 43& 52& 532 533 535 57& 57- 575 581 592 593 603 645 649 678 688 720 722

Derwent Registry Numbers: 1740-U

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DIALOG(R)File 351:DERWENT WPI

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007838252

WPI Acc No: 89-103364/198914

XRAM Acc No: C89-045625

XRPX Acc No: N89-078735

Cationic polymer soln. for contact lens - where polymer is polysaccharide or polyvinyl polymer or graft copolymer of the two

Patent Assignee: TOME SANGYO KK (TOME-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 1050014	A	19890227	JP 87207289	A	19870820		198914 B

Priority Applications (No Type Date): JP 87207289 A 19870820

Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
JP 1050014	A		7			

Abstract (Basic): JP 1050014 A

The polymer is (a) cationic deriv of polysaccharides, (b) cationic

deriv of vinyl polymer, of (c) graft copolymer of cationic deriv of polysaccharides and vinyl polymer. For polysaccharides e.g. cationic deriv of dextran, cellulose, chitosan , glycol chitosan , etc. are pref used. Polydimethylaminoethyl methacrylate, poly N-(3-dimethylamino-propyl)acrylamide, etc. are used for cationic deriv of vinyl polymer. For graft copolymer of cationic deriv of polysaccharides and vinyl polymer, e.g., copolymer of chitosan and poly 2-hydroxyethyl methacrylate is pref.

USE/ADVANTAGE - It has good and stable hydrophilic property to contact lens only by immersing it to the soln. The lens fit well to eyes although it is used for a long time.

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Title Terms: CATION; POLYMER; SOLUTION; CONTACT ; LENS ; POLYMER; POLYSACCHARIDE; POLYVINYL; POLYMER; GRAFT; COPOLYMER; TWO  
Index Terms/Additional Words: POLYVINYL\_P ; POLY; HYDROXYETHYL; METHACRYLATE; POLYMETHACRYLATE

Derwent Class: A18; A96; D22; P81

International Patent Class (Additional): G02C-013/00

File Segment: CPI; EngPI

Manual Codes (CPI/A-N): A12-W12C; D09-C01A

Plasdoc Codes (KS): 0003 0231 0500 0501 0585 3060 0640 1982 1989 2506 3250  
2701 2765 2769 3310

Polymer Fragment Codes (PF):

\*001\* 014 034 037 04- 074 077 079 081 086 252 253 259 398 40- 43& 52& 532  
533 535 57& 603 645 649 678 688 720

3/9/14

DIALOG(R)File 351:DERWENT WPI

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007485423

WPI Acc No: 88-119357/198817

Related WPI Acc No: 88-056503; 89-206431; 90-067060; 90-375338

XRAM Acc No: C88-053541

XRPX Acc No: N88-090685

Biomaterial with desired biocompatible surface - useful for prodn. of substitute blood vessels, lenses, electrodes, catheters etc.

Patent Assignee: BIO METRIC SYSTEMS INC (BIOM-N); BIO-METRIC SYSTEMS INC (BIOM-N)

Inventor: GUIRE P E

Number of Countries: 017 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
WO 8802623	A	19880421	WO 87US2675	A	19871016		198817 B
AU 8782320	A	19880506			198830		

high  
oxygen transmittance in this way and the antifungal property  
and  
wettability are improved by the chitin derivative

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DIALOG(R) File 347:JAPIO  
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02967624  
CLEANER FOR CONTACT LENS.

PUB. NO.: [REDACTED]  
PUBLISHED: October 23, 1989 (19891023)  
INVENTOR(s): SHIMAI YOSHIYUKI  
TSUKUDA KOJI  
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APPL. NO.: 63-093774 [JP 8893774]  
FILED: April 15, 1988 (19880415)  
INTL CLASS: [4] G02C-013/00; C11D-003/386; C11D-017/00; G02C-007/04  
JAPIO CLASS: 29.2 (PRECISION INSTRUMENTS -- Optical Equipment); 14.2  
(ORGANIC CHEMISTRY -- High Polymer Molecular Compounds);  
14.6  
(ORGANIC CHEMISTRY -- Liquid Fuel, Oils & Fats)  
JOURNAL: Section: P, Section No. 991, Vol. 14, No. 25, Pg. 75,  
January  
18, 1990 (19900118).

#### ABSTRACT

PURPOSE: To provide an exceptionally high effect of removing the  
mold  
sticking to a lens by incorporating specific enzyme into the cleaner.

CONSTITUTION: The mold and bacteria stick to the soft contact  
lens  
consisting of a synthetic resin and, therefore, at least one enzyme  
among  
chitinase, chitosanase or .beta.-1, 3-glucanase is incorporated into  
the  
cleaner for said lens. The chitin, chitosan or .beta.-1, 3-glucan  
is  
generally contained in the cell walls of the mold generated on the lens  
and  
is directly decomposed by any of the above-mentioned enzymes, by which  
the  
cell walls are separated and the mold sticking to the lens is  
directly  
removed. The effect of removing the mold is, therefore, high.

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